

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE 27/06/2023)**

Parameters	Permissible Limit	Maximum Limit	P3	P7	P8	P11	P12	P13	P14	P15	P16
pH	6.5 to 8.5	No relaxation	8.32	8.27	8.19	8.32	8.44	8.42	8.25	8.38	8.46
TDS (mg/l)	500	2000	460	629	795	670	438	563	669	709	423
Hardness (as CaCO ₃) (mg/l)	200	600	90	110	170	130	120	100	120	140	80
Alkalinity(as CaCO ₃) (mg/l)	200	600	350	300	310	290	320	310	280	290	330
Nitrate (mg/l)	45	No relaxation	0.06	0.04	0.06	0.09	0.05	0.06	0.04	0.07	0.06
Sulfate (mg/l)	200	400	35.26	36.11	56.36	37.15	38.01	37.05	41.57	48.21	25.26
Fluoride (mg/l)	1	1.5	0.886	0.693	0.621	0.712	0.948	0.842	0.698	0.687	0.994
Chloride (mg/l)	250	1000	130	260	305	280	105	175	285	305	110
Turbidity (NTU)	5	10	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Arsenic (mg/l)	0.01	0.05	0.0013	0.0023	0.0021	0.0020	0.0022	0.0013	0.0017	0.0012	0.0013
Copper (mg/l)	0.05	1.5	0.0004	0.0007	0.0014	0.0007	0.0006	0.0009	0.0005	0.0008	0.0007
Cadmium (mg/l)	0.003	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium (mg/l)	0.05	No relaxation	0.0005	0.0003	0.0008	0.0009	0.0005	0.0004	0.0006	0.0008	0.0007
Lead (mg/l)	0.01	No relaxation	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron (mg/l)	0.3	No relaxation	0.12	0.17	0.19	0.16	0.14	0.16	0.17	0.18	0.15
Zinc (mg/l)	5	15	0.0092	0.0018	0.0008	0.0003	0.0007	BDL	BDL	BDL	0.0126
Fecal Coliform (cfu)	0	0	0	0	0	0	0	0	0	0	0
E. Coli (cfu)	0	0	0	0	0	0	0	0	0	0	0

Sampling Locations: P3 - Behind Helicopter building,
P7 - Near water tank and main entrance of VH-Extension, Type-1,
P8 - Near Health Centre,
P11 - Hall 10 back side,
P12 - Near about 150 M of P-2 (end of lane-36),
P13 - Near Visiting Faculty Apartment,
P14 - Near Hall 12,
P15 - Behind New Sac,
P16 - Near duplex type-3

BDL- Below Detection Limit; NTU- Nephelometric Turbidity Unit; CFU- Colony Forming Units in 100 ml of the sample .

Detection Limits : Pb 0.0001 mg/l, Cu 0.0001 mg/l , Cr 0.0005 mg/l , Fe 0.0001 mg/l , Cd 0.0004 mg/l, As 0.0001 mg/l, Zn 0.0005 mg/l.